

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-217796

(43)Date of publication of application : 08.08.2000

(51)Int.Cl.

A61B 5/022
A61B 5/00

(21)Application number : 11-025829

(71)Applicant : MATSUSHITA ELECTRIC IND CO LTD

(22)Date of filing : 03.02.1999

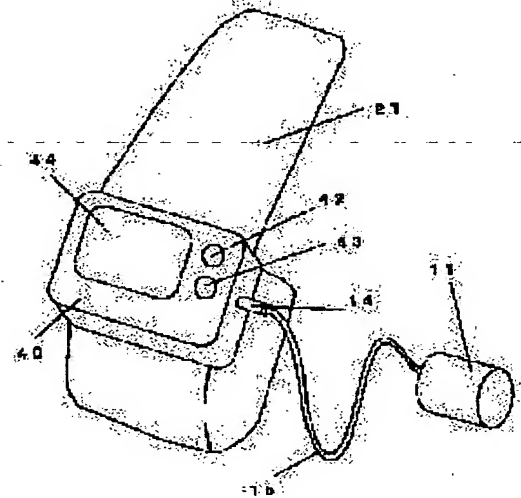
(72)Inventor : WATANABE YOSHIAKI
OGINO HIROYUKI

(54) CIRCULATORY FUNCTION DIAGNOSTIC DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To clarify an operation state to the blood pressure of a testee by diagnosing the state of the circulatory function of the testee by using the blood pressure indicating the load of a blood circulatory system at present and the waveform pattern of acceleration pulse waves indicating the operation state of the blood circulatory system at present.

SOLUTION: When the testee winds a cuff 21 around the wrist, fixes a pulse wave detection means 11 to the finger of a hand by a fixing tool, connects it to a main body and then presses a circulatory function diagnosis start button 43, the sampling of the pulse waves is started first, light is radiated from a light emitting element, and when the finger of the testee is exposed to the light, since hemoglobin and water in blood absorb it with strong selectivity, a light quantity after being transmitted through or reflected from the finger accurately reflects the increase/decrease of a blood amount. In a light receiving element, a resistance value is changed corresponding to the change of the transmitted or reflected light quantity, and by converting it to a voltage signal, the increase/decrease of the blood amount by the beat of the heart is converted to the voltage signal and taken out.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

BEST AVAILABLE COPY